The Logger's BARK

1916 - Radio Club of Tacoma - 2016

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The President's Corner

Dave W7UUU

Radio Picnics!

While Field Day may well be behind us, there's no reason we can't keep the fun rolling all summer long! Why not plan your own little field day event any time you want? While there are a number of sanctioned events that call for operating radio gear in a portable fashion, just getting outdoors and operating on the air for the pure fun of it can bring rewards for yourself or your whole family. I like to call them ***"Radio Picnics"*** – all the trappings of a good old fashioned picnic in the park or at the beach – some cold chicken, macaroni salad, chips and dips – everything a proper picnic deserves, but with the added dimension of portable radio gear.

There are a great many choices for QRP (low power) HF radio gear available today. Perhaps more than ever before, in fact. And if operating Morse via CW, the choices are even more plentiful. In fact, none of the QRP rigs that I like to take on a picnic offer any other mode than CW. I find that I prefer my Elecraft KX1 and MFJ 9020, and only ever operate on 20-meter CW. But with all of the many choices of smaller, portable rigs out there, you can operate SSB, Digital modes like JT65, FM on VHF or UHF, or even on old fashioned AM mode! The choice is up to you. Even if low power operation doesn't appeal to you, there are plenty of higher power (up to 100-watts) HF rigs to be had, albeit at the cost of much shorter operating times on battery power, and much larger batteries. QRP rigs of 5 watts or less really seem to be the sweet spot for the radio picnic event.

Ann, N7ANN joins Dave W7UUU at the park.

Antennas can be super easy or very challenging, depending on your skill levels and what you're wanting to achieve. There are more commercial portable antenna products on the market than there are radios! But as with many other aspects of amateur radio, very often just a simple home-brewed solution can work wonders. For my own 20m radio picnic adventures, I simply use an inverted vee fed with RG-58 coax. Using a sling shot from Big Lots, I launch a small weight into a tree with fine 100-pound lightweight braided fishing line and pull the center conductor up to around 30 feet or so. This has proved very effective for working the world with 4 watts of CW from my KX1. A few hours of on-and-off operating, while enjoying a

picnic with my wife and our dog, is a great way to wash away the stresses of a long work week. Just be sure to read any park rules beforehand – some parks do not allow "firing projectiles" as is required when using a slingshot. You can always use a tripod-based vertical or horizontal antenna in such cases. Buddipole is one of the big brands of portable antenna safe to use in any situation.

Dave W7UUU at the key of his Elecraft KX-1 CW Rig– working up an appetite for some chicken and vino.

Of course, you can also seek out the more competitive aspects of operating radio portable, while still combining the event with a nice picnic getaway on a weekend. There are many sanctioned events that lend themselves very well to such a getaway. Summits on the Air, or SOTA (www.sota.org.uk) is perhaps the best known, and quite likely the most competitive (an elaborate system of points are awarded to participants). But for every competing member there are dozens who work SOTA contacts just for the sake of playing radio in the great outdoors, hiking trails to a nearly endless array of territorial land peaks, both great and small. Many can be accessed by vehicle, making SOTA operation possible for folks with disabilities. And of course, in the spirit of this column, there's no reason a SOTA radio activation of a local summit can't be cause for an afternoon of family time over a radio picnic.

Another event, and very low-key compared to SOTA, is a relative newcomer, Beaches on the Air (www.beachesontheair.com) or BOTA. Not anywhere near as competitive as SOTA, Beaches on the Air is about the best way I can think of to have a relaxing beach picnic while playing portable radio in a sanctioned event. Scoring is very much a back burner issue with BOTA, and largely is the honor system. But it's still a way to work stations and get your own callsign into the database all from contacts worked while relaxing in the sun over a picnic.

And there's a wonderful side benefit to all of these activities – public relations for amateur radio as a hobby! We're all familiar with ARES and RACES and the public service aspects of the hobby we share, but a radio picnic in your local park will almost surely attract a few curious onlookers and give you the chance to perhaps introduce them to ham radio from the simple pleasure side of it as a technical hobby. I've had the chance many times to share what radio is all about to strangers in the park, letting them hear Morse code – many of them for the very first time in their lives! Anything we can do to bring our hobby some good public relations is a benefit to us all.

So in closing, if you've never thought of doing your own radio picnic, even if just on 146.52 simplex or one of the club repeaters, maybe this summer is the time to start! Who knows – maybe you too will discover what a great way to blow off the stress of the week while pursuing your hobby in the outdoors with your family or even by yourself. The photo below was from just last weekend, in Fircrest park with my wife Anne N7ANN and our little dog Molly. We had a great time and I got quite a few new stations in the log. Have a great summer everyone!

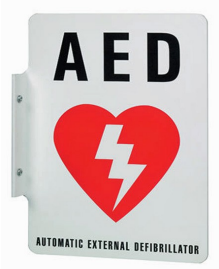
THIS MONTHS CONTENTS

Prez's Traffic	Page 01
Bunk, Blather, Jibber-Jabber	Page 03
Hamshack of the Month	Page 05
Around the Clubhouse	Page 06
Club Meeting Traffic	Page 08
Hints n Kinks-	Page 13
TNT aka What's New	Page 14

Greetings Readers… Three readers submitted photos from RCT's 2017 Field Day as entries in the Bark's FD Photo Contest. These photos will be sprinkled throughout this months edition.

This month we'll go backwards to the recent April Antenna Issue… and augment that issue with some recently acquired antenna information. Every ham likes antennas? Right!

The following *Editorial* section is to stimulate readers thinking regarding how I think the club can improve and provide more benefits for it's members and ham radio in general.



Editor's Editorial Part 1: Your editor thinks that the Clubhouse should have an AED on the wall right next to the first aid kit. What's an AED? It's an **A**utomated **E**xternal **D**efibrillator– A portable device that checks the heart rhythm and can send an electric shock to the heart to try to restore a normal rhythm. AEDs are used to treat sudden cardiac arrest. Where I used to work… it was called a Heart Attack Machine. For more information… **Click this LINK**. In following months… I will circulating a petition and asking for signatures from members who agree that the club management should buy and install this important First Aid equipment.

Editor's Editorial Part 2: At Field Day– I was inspired by Bill AD7QI's cargo trailer that he turned into a communications trailer. As result- your editor thinks that our radio club should have a Club Communications Trailer. The right used trailer would be inexpensive to purchase. It could be gutted of living quarters and a couple of desk surfaces and storage installed to support two ham stations. Comm Trailer could be used at Field Day and perhaps find it's way to other events where portable ham radio demos fit in or used transport equipment to/ from hamfests. The trailer could be stored (empty of valuables) in the clubhouse parking lot next to the garage. It could become an interesting project for a group of club members to take on.

An example of a small travel trailer that most vehicles could pull used by the Montrose, CO Radio Club.

A great example of small communications trailer

One of Erick K7APO's FD photo contest submissions. Photo taken at Bill AD7QI's station.

Here's FD Field Marshall Adam W2NCC taping the Yagi Antennas coax cable to the military surplus-Rocket Launcher tower mast. Contest photo submitted by David W7HJT.

HAMSHACK OF THE MONTH

BY CONTRIBUTING MEMBERS

This months hamshack theme is: **Hamshack In A Box** All of these shack images were garnered from the Russian controlled internet.

Larry the Ham Radio Guy Click LINK HERE

AROUND THE CLUBHOUSE
PAST, PRESENT & FUTURE INFO

Your Club's Property Management Team is having **The Summer Sale**.
PMT has produced a list of surplus equipment to sell so support the club's coffers. The sale was revealed at the July Club Meeting and will continue until Oct 1– or until the items on the list are sold. PMT Team Leader RED WB7EC will be at the Clubhouse each Saturday to assist interested buyers. Assist the club and get a buddy to buy something.

JULY-SEPT 2017 RCT SUMMER SWAP MEET SELL LIST

#	Item	Listed Price
1	National NC-270 Receiver	75
2	MFJ949 Antenna Tuner	70
3	Kenwood TM-331A 220Mhz XCVR	100
4	Dentron Antenna Super Tuner	75
6	Antenna Tuner MFJ 993BRT	200
7	Yaesu RF-1015 HF Receiver	100
9	VHF Beam Cushcraft A148-10F	50
10	Auto Antenna tuner icom AT-120	100
11	Heathkit HF Receiver SB-310	100
12	Power Supply- Astron RS-12A	25
13	Power Supply- Astron RS-7A	15
14	Power Supply- Astron RS-12A	25
16	HF Transmitter- B&W 5100B	200
17	Side Band Generator part of item 16	0
18	AM Transmitter Globe Model 300	100
21	HF Vertical Antenna Comet CHA-250BX	250
22	Rotor Controller CDE HAM 44	100
23	HF Beam Antenna KLM/M2 Triband	1000
24	Rotator Yaesu G450XL w/ cable	250
25	MFJ Versa Tuner4 3KW	200
26	Antenna Tuner- Drake MN2000	200
27	Speaker- National NC-98	50
28	UHF Transceiver Icom IC-F410	200
29	DSP Timewave DSP-599ZX	35
30	Morse Tutor MFJ-414	75
31	Power Supply- 12V- Heathkit HP-1175	29
32	Mili-Ammeter Simpson 17021	10
33	Balun - Homebrew	10
34	Mobile Mount- Yaesu FT-897	35
35	Coax Switch- Heathkit	10
36	Volt Ohmeter Military ME-9G/U	5
37	Mobile ANT- HF- Webster Band Span	30
38	2 Meter Beam- 4 element	25

AMERICAN RADIO RELAY LEAGUE

RADIOGRAM

CITY OF ORIGIN	STATION	NUMBER
Tacoma, WA	W7OS	999T

TO:– Members interested in Museum Activities

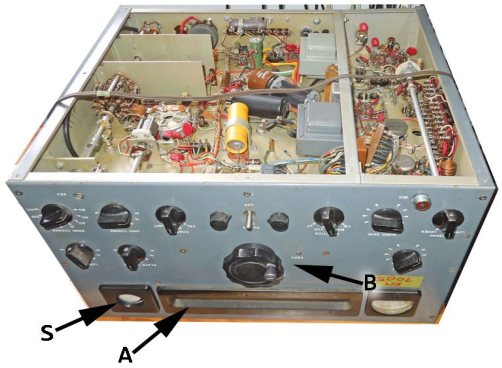
The Eldico SSB transmitter restoration has encountered another pothole on the road to restoration. A new Power Supply was built on a plywood board with Masonite front panel (just like Depression Era hams) to provide the correct Medium High Voltages to properly excite most of the circuitry. This PS provides +360 VDC@150 mA and 6.3 VAC@5 Amps. Randy WB4SPB and Rich KR7W have been testing signal flow and discovered that part of the VFO sub-assembly does not produce an output to its following stages. Troubleshooting reveals that there is an open inductor to stop the needed High Voltage -in its tracks– from reaching the next tube. We think that this could be fixed– but it requires removing the VFO sub chassis from the main chassis. Much disassembly is required just to test the suspected bad component.

REC'D AT STATION W7DK PHONE GR4-1232 TIME 1900

ADDRESS 1248 S Washington St, Tacoma, Wash DATE 5/1/55

This Message was transmitted free of charge by Amateur Radio Stations of the American Radio Relay League. Answer will be sent free by filing at this station.

FORM 4 PRINTED IN U.S.A.



Eldico (L) broken down with it's hood up- The VFO sub chassis is located behind the big knob (B). Removal of (A) the unique rotating dial drum assembly and it's associated cables is needed. The Eldico repairmen are unsure of the rest of the unique circuitry, like (S) the 1 inch (hard to find a spare) oscilloscope which is needed in the 'tune up' process. There's a few more unique items to test before the VFO module is removed. Do we really want put time and money into this broken down jalopy or sell it for scrap? You vote: email me LINK your opinion.

Club member Jack K7DBU recently donated to the club– a set of vintage Heathkit Mobile Radios: Models MT-1 "Cheyenne" and MR-1 "Comanche". [ed note: back in the 50s and 60s Heathkit named some of their amateur radios after Native American tribes. Your editor will not heed to political correctness and will continue to use Heathkit's Indian names]. The Cheyenne and Comanche are 100% vacuum tube and require a special HV power supply.

The Heathkit Amateur Radio Collectors Guide states that these radios were sold from 1958 to 1962. A short life span– probably because they operated AM instead of the up and coming SSB. The Cheyenne and Comanche are considered to be a RARE find if in good condition. The W7OS Museum has acquired these radios for its collection.

Cheyenne MT-1 Mobile Transmitter

Comanche MR-1 Mobile Receiver

CLUB MEETING TRAFFIC

PROVIDED BY: MIKE W7MWF, CLUB SECRETARY

Radio Club of Tacoma
Board of Directors Meeting Minutes
June 7, 2017

Meeting called to order at 7:03 p.m. PDT by President Dave W7UUU

Officers and Directors Present

President	Dave Ellison W7UUU
Secretary	Mike Finnie W7MWF
Board	Phil Pia K7PIA
Board	Red Cranefield WB7EC
Board	Bruce Hanson WE7P

Quorum? A quorum was present. 10 members signed the attendance roster.

Silent Key or Illness? Dan Warner KB7HIN RCT# 2318 SK May 20, 2017

Approval of Minutes Minutes of the May 3, 2017 Board Meeting were approved.

Secretary's Report Mike W7MWF reported receipt of the usual correspondence; bank statements, utility bills, periodicals.

Treasurer's Report Steve AF7YD was absent and no report was presented.

Committee / Reports

Membership Mike W7MKE reported that we stand at 292 members

Training Tech class June 10/11
Next VE Session June 13

Info Tech: It was reported that all systems are nominal

HF Operations: The Alfa Spid rotor is on backorder. Bruce WE7P will investigate other sources.

Repeater Ops: No updates on installation of new controller into 2 Meter repeater 147.280

Facilities Mgmt: Bruce WE7P reported on several security issues. Adam W2NCC suggested installation of video equipment. It was decided to schedule discussion of video surveillance until the next board meeting when more directors are present. Mike W7MWF reported that solid waste collection has been changed from Fridays to Mondays

Property Mgmt: Red WB7EC reported sales of $3 at the May mini-swap meet. We are nearly depleted of property to sell at the Saturday events.

Museum: Randy WB4SPB reported ongoing progress on the Eldico transmitter.

Weds Activity Night To be announced prior to event.

General Meeting: Dave W7UUU advised that he will be out of town on General Meeting night. Adam W2NCC will provide a presentation, most likely a video about DXpedition activities.

Unfinished Business No unfinished business

New Business

Gas BBQ donated in 2013 by Paul former KE7WTK now WB6MRI has worn out to the point of being unusable. Should this be replaced, and if so, before FD or later in the year when they go on sale. A motion was made to have Paul W7PFU and Jan K7HTU make the determination whether or not a replacement is needed and undertake acquisition of another BBQ with a budget not to exceed $400. Motion carried.

Activity Reports and Discussion Topics

Field Day Planning – Adam provided status updates for the FD2017 event. Everything appears to be on schedule and there are no critical unresolved issues.

ARDF Bunny Hunt was held May 21. There were14 registered hunters plus many spouses and kids. It was a very successful event with many first time participants. Another event, possibly a vehicle-enabled hunt, is being considered for later in the summer.

Announcements

Adjournment The meeting was adjourned at 7:55 p.m. PST

Radio Club of Tacoma
General Membership Meeting Agenda
Jun 14, 2017

Meeting called to order at 1931 PDT by Vice President Mike W7XTZ at the Pierce County Library Administration Building.

Officers and Directors Present

Vice President	Mike Mikuchonis W7XTZ
Secretary	Mike Finnie W7MWF
Treasurer	Steve Dightman AF7YD
Board	Red Cranefield WB7EC
Board	Phil Pia K7PIA
Board	Paul Matney W7PFU

Pledge of Allegiance led by Vice President Mike W7XTZ

Welcome and Self-Introductions

No guests were present. New Members Dale KI7OMN, Steve KI7NRN and Shelly KI7NRM introduced themselves.
No New Calls were announced.
Self-introductions were completed. 31 folks signed the attendance roster.

Health and Welfare

Silent Keys

- The memorial and potluck celebration for Dennis Reanier will be held Sunday, July 9 at Marvista Park, 19990 4th Ave SW, Normandy Park, 98166.Dennis joined the Radio Club of Tacoma in 1965, was president in 1971 and VP in 1974. He was well known in Tacoma as the Ham Shack manager at C&G Electronics at S. 24th & Jefferson.
- Dan Warner KB7HIN RCT# 2318 SK May 20, 2017. Many members will remember Dan as the embroiderer of their hats from Hot Press.
- Doug Phillips W7RDP was announced as an SK. Doug was from Sammamish and active in the PNW QRP group.

Secretary's Report: Secretary Mike reported receipt of the usual stuff, membership renewals and new joins, periodicals, utility bills and bank statements

Treasurer's Report: Treasurer Steve AF7YD reported all bills are paid and we still have money in the bank

Committee / Activity Reports

Membership Mike W7MKE reported that membership stands at 292

Training: No Tech classes July/August/September. Next Tech class will be held October 7/8

VE Report (Phil K7PIA reported on behalf of John AC7WW). The next VE Session will be held July 11, 2017. A copy of John's report is filed with these minutes.

HF Operations Phil K7PIA reported that the new rotor is on backorder.

Repeater Ops Rich KR7W advised that migration of the new controller to the 2 meter repeater is stalled because of team members' employment and family commitments.

IT Report It was acknowledged that all systems are functioning nominally.

Museum Rich KR7W advised that a power supply is being constructed for testing the Eldico transmitter. He also mentioned the possible issuance of a new Morse Code Merit Badge that could be sewn onto your jacket or vest.

Facilities Mgmt The crew that helped with grounds clean up was recognized: Jan K7HTU, Joe KF7PXB, Rich KR7W, Red WB7EC and Mike W7MWF. Thanks guys!

Prop Mgmt Red WB7EC pointed out that we are always in need of donations of items suitable for raffle prizes.

4th Weds Activity Night - Topic to be announced prior to event

New Business

Unfinished Business and Announcements

Rich KR7W gave a report on the ARDF Bunny Hunt was held May 21. There were14 registered hunters plus many spouses and kids. It was a very successful event with many first time participants. Another event, possibly a vehicle-enabled hunt, is being considered for later in the summer. Rich presented the trophy for the grand championship to winner Mike W7MKE.

Adam W2NCC gave an update on Field Day preparations. ICom had provided a loaner IC7700 for our use at the event. ARRL has donated two $25 gift certificates for prizes in connection with the event

Mike W7MWF announced that the Annual Picnic will be held Sunday, August 20 at Ft Steilacoom Park Shelter #3.

Program: Adam W2NCC presented a video of the 2009 K5D DXpedition to Desecheo Island near Puerto Rico.

Show and Tell None

Tuning and Traffic None

Door Prize was won by new member Dale KI7OMN

Raffle Prize was won by Ron K6HSB

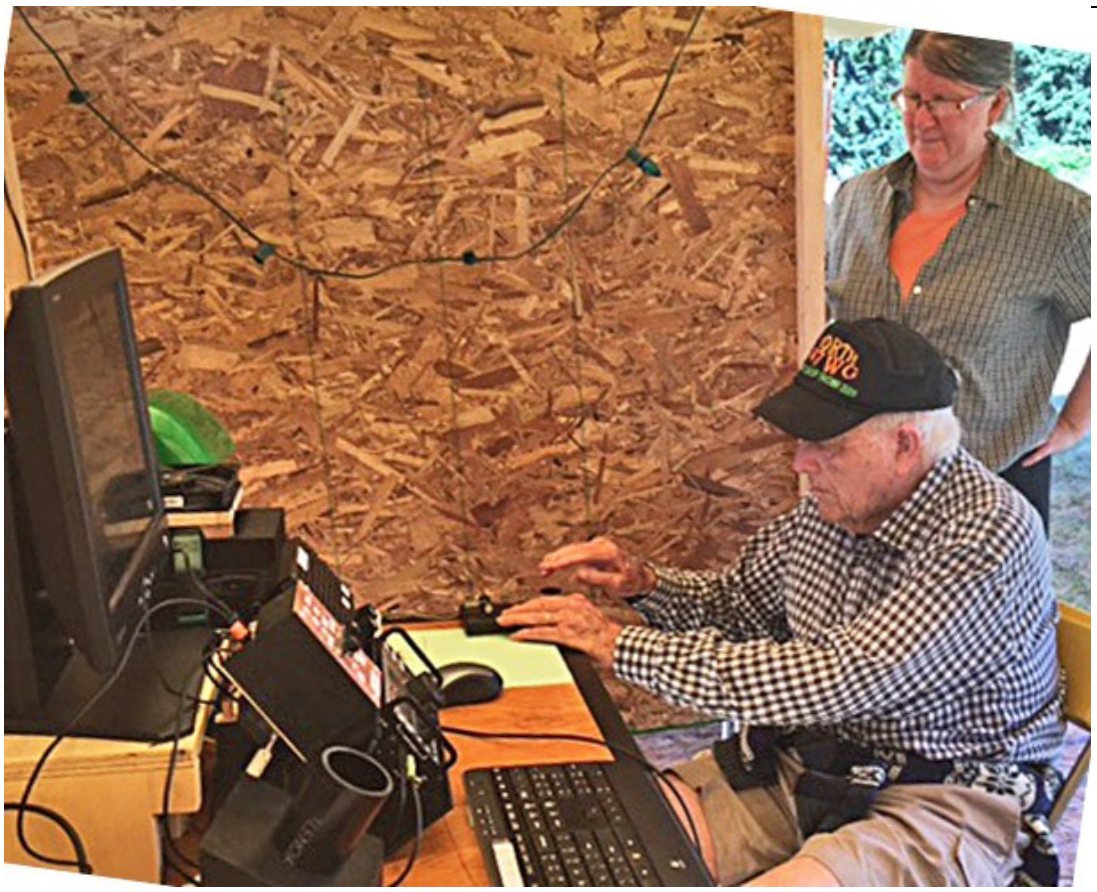
Adjournment was at 2050 PDT

Submitted by Mike W7MWF, Secretary RCT

Early morning sun tints creates a yellow tinge in Erick K7APOs image.

Here FD Field Marshal Adam W2NCC shows off his allegiance to Icom. David W7HTJ (L) and Al N7OMS join in the fun at the 20 Meter SSB shack.

100's of QSOs are automatically being made via PC control.



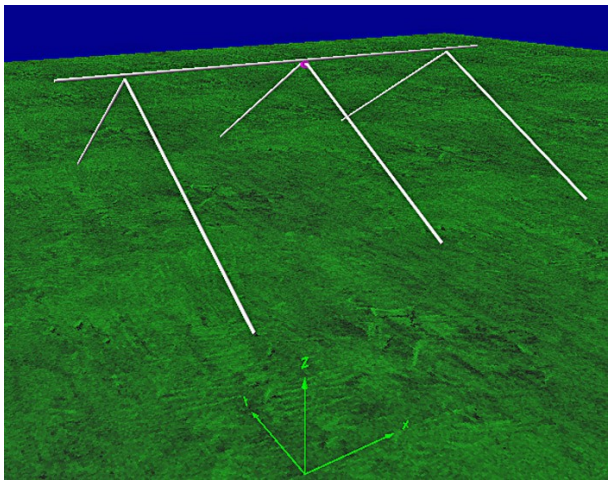
Worth, W7WG– who will be 99 years old this September wanted to make a CW QSO at Field Day. The 20M CW station had a Straight Key handy so Worth sat down. With LeRoy N7EIE's help Worth began to send away. Worth's daughter Heather looks on. This photo was taken by Joe KG7ZYB who was in the area and forwarded to the Bark by FD FM Adam W2NCC.

Kerry KI7LTV, a newer club member- operates the 40M SSB/CW station Sunday morning.

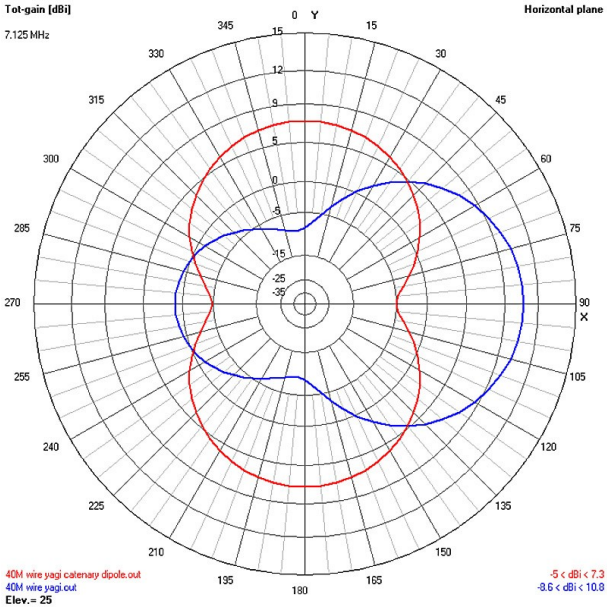
HINTS AND KINKS
CONSTRUCTION & INSTRUCTION
BY READER SUBMISSION

The April issue of the Bark was the Antenna Extravaganza Edition. This article continues that theme. After all, as hams we know that there is no end to the subject of Antennas. So, as the Carnival Barker sez, "Step Right Up, get your rare DX right here with this Miracle Antenna.

A lot of Field Day attendees wondered about the Wire Yagi that the 40 Meter station used at Field Day. "Does that mess of wires really work?" Antenna Modeling Software says it does– and does very well. Randy WB4SPB and Rich KR7W unraveled the wire yagi out on the ground to change a wire length. At that time they carefully measured each wire and jotted it down. Randy then performed calculations using NEC antenna modeling software.



The antenna actually contains 2 antennas. A dipole (the horizontal line on the wire diagram) and the Yagi– the three Inverted Vee elements. If the dipole is oriented to aim N to S, then the Yagi Inverted Vee wires are oriented to aim E to W.



The Azimuth Plot RED lines show the radiation pattern of the Dipole. There's more gain towards the top and bottom of the chart as expected. Blue lines are the Yagi's radiation pattern. If the chart can be magnafied… notice that the Yagi has almost 11 dBi of gain. Since 10 dB is a times ten factor– then theoretically speaking- if the rig outputs 100 Watts… this antenna creates 1KW of effective radiated power in the forward direction.

Randy's calculations reveal that at a 25 degree upward take off angle– this antenna produces 10.8 dBi of forward gain. A 10 dB increase is a factor of times 10– which turns a 100 watt signal into a 1KW signal. The Yagi also has a Front to Back ratio of 19 dB which is almost a divide by 100 factor which equates to- receiving a signal off the front of the antenna will be approx 100 times louder than the rear of the antenna. 40 Meter Field Day CW ops who have used this antenna in the night time hours– swear by it's efficiency. Do you have a miracle antenna story? If so, jot me a note. Email KR7W Link

TNT THE NEW THING

WHAT'S NEW AND NOTABLE IN HAM RADIO?

CONTRIBUTIONS BY READERS LIKE YOU

New and Improved Digital Modes Use for your Elecraft Rigs... looky here

ELECRAFT KX3 TRANSCEIVER
14085.87
KB3SII DE KF0UR Hi Steve Name here is Shel and QTH is Colorado Springs, CO
SIDEKAR PLUS
QRP WORKS
iPazzPort

The SideKar doesn't have to attach to the radio. Small wireless keyboard is shown.

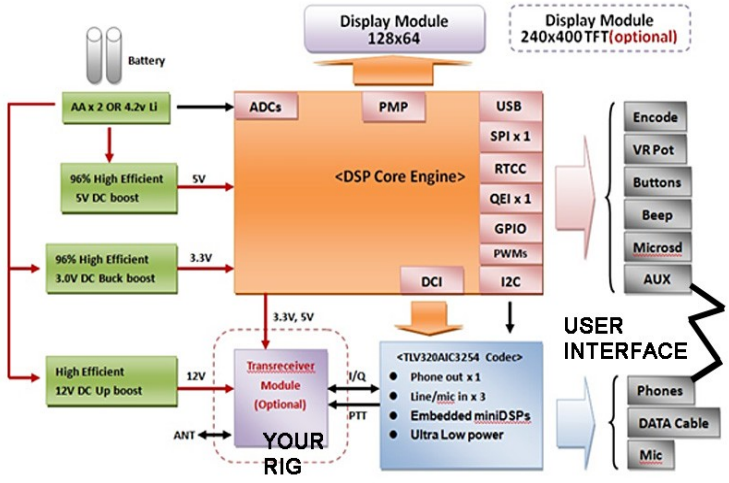
More and more hams are getting KX-3s and the new KX-2 for portable picnic table or mountain top use. The K3 and KX-2 or 3 radios can operate PSK-31 or RTTY without a PC– handy for field use… But Wait! The radio user must know CW in order use these two digital modes. To send PSK or RTTY– the user operates the paddle key to send Morse and the radio sends the digital mode signal over the air. When receiving– the radio shows on the display 8 characters at a time. This method is do-able… but it is clunky and ya gotta know Morse Code pretty well to send PSK and RTTY messages.

For a few years now– the QRPWorks LINK company has been making **PC-less** digital interfaces for the KX2 and KX3. This article features the latest Digital Interface Gizmo for the KX-2, KX-3, and K3 radios– The **SideKar Plus** (abbrev as SKP). It is an outboard device that connects to your Elecraft Kxx radio. It works with the radios internal processor via the accessory data bus to present the digital mode controls to the user in an easy to do business way– keyboard control and a 40 character digital display. A wireless keyboard can plug into the SKP to send up to 20 canned message macros. The SKP user can also log the QSO in the built in 1000 QSO memory to download to a PC later on.

Don't know Morse Code? It's no problem as the SKP converts keyboard macros or inputs into Morse and the KX-x radio sends it out. Receiving Morse is just as do-able as the KX-n radio decodes it and presents the message on the SKP's 40 character display. Now the Non Morse ham easily do SOTA, BOTA, IOTA, NPOTA, and more portable activities using Morse Code with ease. Visit their website QRPWorks LINK for more info.

What if you are old school and use a Yaesu FT-817, 857, 897 or a classic Icom IC-703, 706, or IC-7000 for your Picnic Table Operations and wanna do PC-Less digital modes? The SideKar is made to work with Elecraft radio data bus– which is a foreign language to your Icom or Yaesu rigs.

Enter the **2017 Digital DIGI PSK MODEM BPSK31/63,RTTY QPSK** device that is made to connect to more classic non-Elecraft Rigs mentioned above.



Signal Flow diagram. Gray boxes are user access notations.

This DIGI PSK Modem conveniently runs on 2 internal AA Cells. It appears to have more data modes available– BPSK31+63, QPSK, QPSKR, RTTY, and CW. It connects to your radio's Data jack to access the AFSK (audio frequency shif keying) connections and Push to Talk. The DIGI PSK MODEM has a USB jack for wired or wire-less keyboard connection.

The unit touts having high performance DSP chips to process radio data. It contains a SD card to save logging info and to record real time data. The unit is capable of firmware upgrades. This modem comes to us via two Chinese vendors: Ali Express or Ebay [Click LINKS]. The instruction manual (pretty good English) is downloadable from the above links.

It looks pretty much like the SideKar. Button B1 in conjunction with the B2 Select control provides program access

Below, the image gives an idea the size of the Digital Modem.

Youtube video of a ham using the Digital Modem: Click LINK

DID YOU KNOW?

This image is a Magic Eye Tube– a visual tuning indicator from the old days of radio– sorta like an S-Meter with no numbers.

Demonstration Here: Click LINK

RADIO CLUB OF TACOMA

1916 - 2016

100 YEARS OF SERVICE

THE LOGGER'S BARK is the *OFFICIAL PUBLICATION OF THE RADIO CLUB OF TACOMA*… and is published by RCT, PO Box 11188, Tacoma, WA 98411. The Radio Club of Tacoma is a non-profit corporation as defined by law, and all proceeds will be used exclusively for charitable and educational purposes. The Radio Club of Tacoma's Club House is located at 1249 Washington St, Tacoma, WA 98411, phone: 253-759-2040.

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RADIO CLUB REPEATERS

Central Tacoma:	147.280 + PL=103.5	
Crawford Mountain	147.380 + PL=103.5	(E of Olympia @ 1500 ft ASL)
Central Tacoma:	440.625 + PL=103.5	
North Tacoma:	145.21 – PL=141.3	

www.w7dk.org [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.